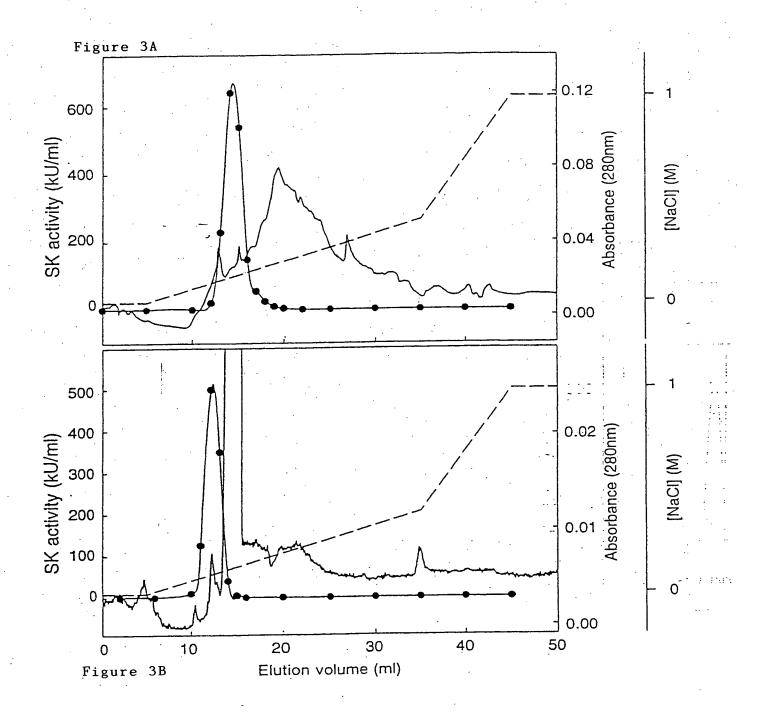


Figure 2



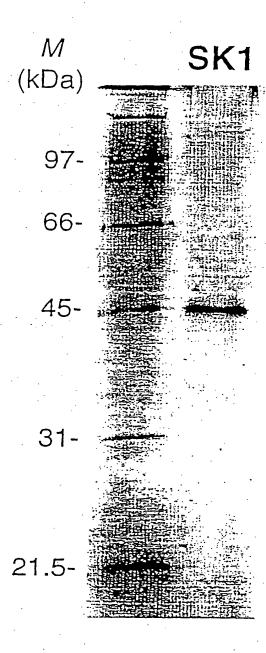


Figure 4

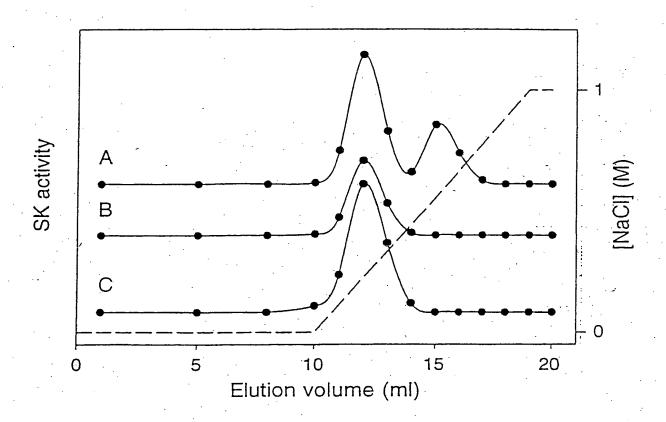


Figure 5

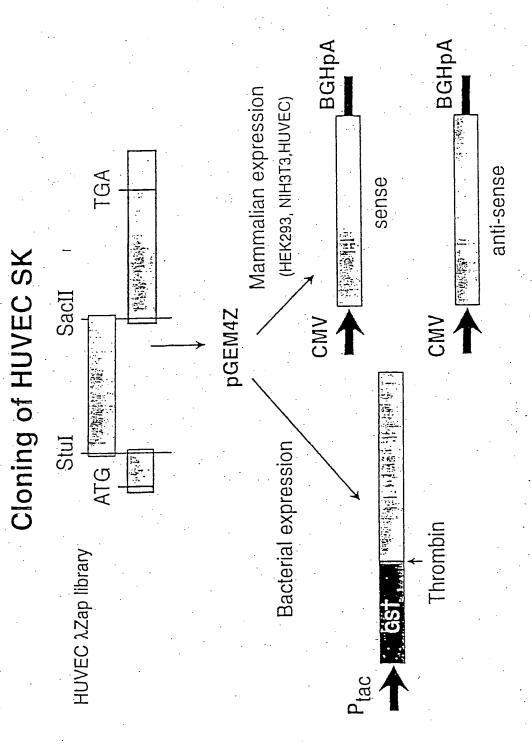


Figure (

Figure 7A-

195 601	G T F L R L A A L R T Y R G R L A Y L P V G R V G GCACTTTCCTGCGCCGTCTTGCGCACTTACCGCGGCCGACTGGCTTACCTCCTGTAGGAAGAGTGGGT	219 675
220 676	S K T P A S P V V V Q Q G P V D A H L V P L E E P TCCAAGACACCTGCCTCCCCGTTGTGGTCCAGGGCCCGGTAGATGCACACTTGTGCCACTGGAGGAGCCA	244
245	V P S H W T V V P D E D F V L V L A L L H S H L G	269.
751	GTGCCCTCTCACTGGACAGTGCTGCGACGACGACGACGACTTGCCTAGTCCTGGCACTGCTGCACTCGCACCTGGGC	825
270	S E M F A A P.M G R C A A G V M H L F Y V R A G V	294
826	AGTGAGATGTTTGCTGCACCCATGGGCCGCTGTGCAGCGTCATGCATCTGTTCTACGTGCGGGGGGGG	900
295	S R A M L L R L F L A M E K G R H M E Y E C P Y L	319
901	TCTCGTGCCATGCTGCGCCTCTTCCTGGCCATGGAGAAGGGCAGGCA	975
320	V Y V P V V A F R L E P K D G K G M F A V D G E L	344
976	GTATATGTGCCCCTGGTCGCCTTGGAGCCCAAGGATGGGAAAGGTATGTTTGCAGTGGATGGGAATTG	1050
345 051	M V S E A V Q G Q V H P N Y F W M V S G C V E P P ATGITAGCGAGGCCGTGCAGGTGCACCCCAAACTACTTCTGGATGGTCAGCGGTTGCGTGGAGCCCCCG	369 1125
370	PSWKPQQMPPPPEEPL• CCCAGCTGGAAGCCCCAGAAGAGCCCTTAtga	384 1173

Figure 7A-2

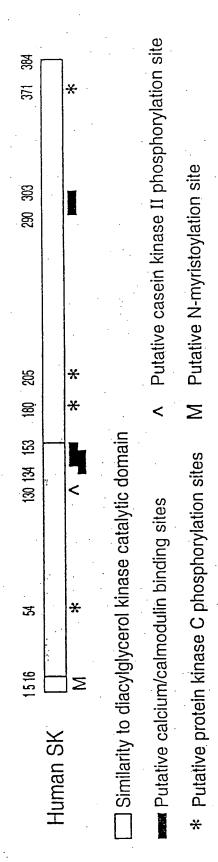
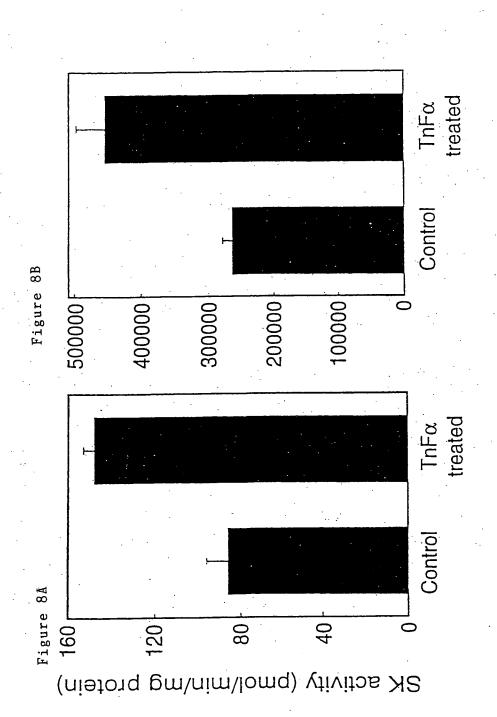


Figure 7B



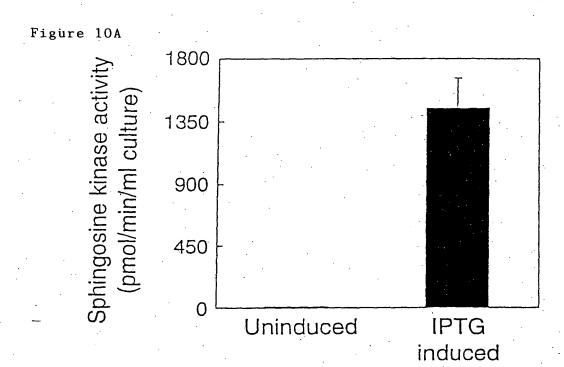
hSK mSK1a mSK1b Yeast LCB4 Yeast LCB5 S. pombe C. elegans Consensus hSK mSK1a	1 206 252 90 63 111 111	MDPAGGPRGVLPRPCRVLVLLNPRGGKGKALQLFRSHVQPLBAEAEIS MWWCCVL.FVVECPRGLLPRPCRVLVLLNPQGGKGKALQLFQSRVQPFBEAEIT NISSGTVEEILEKSYENSKRNRSILVIINPHGGKGTAKNLFLTKARPILVESGCK DLVEEILKRSYKNTRRNKSILVIINPHGGKGKGTAKNLFLTKARPILVESGCK DLVEEILKRSYKNTRRNKSILVIINPHGGKGKGKAKLFMTKAKPLLASGCK ENEQLTSVILSRKPPPQEQCRGNLLVFINPHGGKGKGKAKHIWESEAEPVFSSAHSI ENEQLTSVILSRKPPPQEQCRGNLLVFINPNSGTGKGKAL.*F.* *
Yeast LCB4	325	· 🖼
Yeast LCB5	368	SGWAMSVSCHWTNNPSYSTACLIKSIETRIDLWCCSQPSYAREHPK
S. pombe	203	SGWAFSYNATGQLKPALTALEILKGRPTSFDLWTFEQKGKKA
C. elegans	184	SONGLICEV LSKYGTKMNEKSVMERALEIATSPTAKAESVALYSVKTDNQ. SY
Consensus		SGNA*S

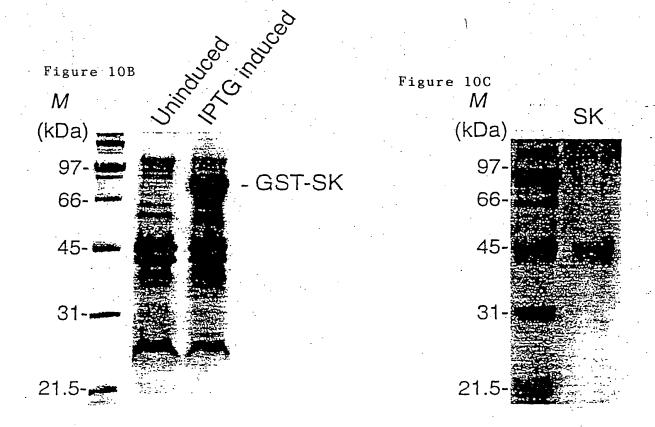
nsk	717	AYLPOGRVGSKTPASPVVVQQGPVD
mSK1a	210	AYLPVGKGPVD
mSK1b	. 217	AYLPVGTVASKRPAST.LVQKGPVD
Yeast LCB4	435	ENKDKNKGCLTFEPNPSPNSSPDLLSKNNINNSTKDE
Yeast LCB5	478	EHKNKGSLEFQHITMNKDNEDCDNYNYENEYETENEDEDEDADADDEDSHLIS
S. pombe	308	EKSKNLAPMSESSDSDK
C. elegans	284	TYRPYKPKGFHPSSNVFSVYEKTTQQRIDDSKVKTNGSVSDSEEETME
Consensus		· · · · · · · · · · · · · · · · · · ·
hSK	282	AGVMHLFYV. RAGVSRAMLLRLFLAMEKGREMEYECPYLVYVPVVAFRLEPKDG
mSK1a	280	AGVMHLFYV RAGVSRAALLRLFLAMQKGREMELDCPYLVHVPVVAFRLEPRSQ
mSK1b	287	AGVMHLFYVRAGVSRAALLRLFLAMQKGREMELDCPYLVHVPVVAFRLEPRSQ
Yeast LCB4	532	Detidloitdariputrmtpilbsldkesh.vlepevihskilaykiipkve
Yeast LCB5	586	DeTMDMVITDARTSLTR MAPILLGLDKOSH VLQPEVLHSKILAYKIIPKLG
S. pombe	367	DELIDVVIVYSKQFRKSLLSMFTQLDNGGFYYSKHLNYYKVRSFRFTEVNT
C. elegans	388	DNRIHLSYILWKDIGT VNIAKYLLAIEHETTLDL. FFVKHVEVSSMKLEVISE
Consensus		.G.*.**R*.L**G.HP.**.*.P.

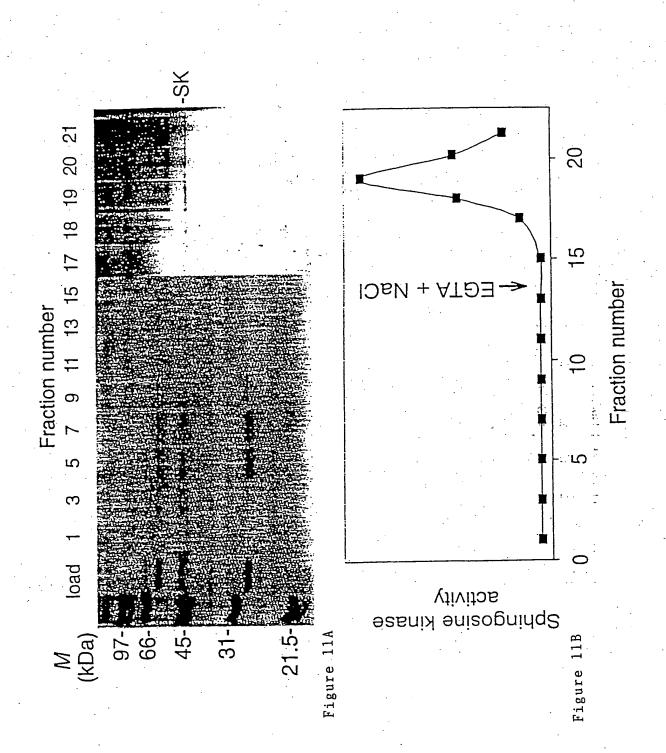
Figure 9E

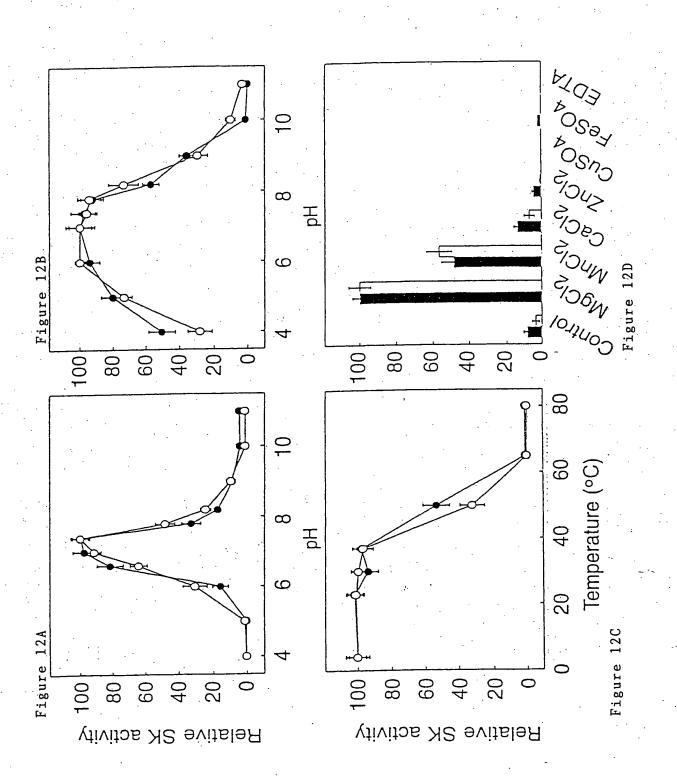
RE.LVRSEELGRW

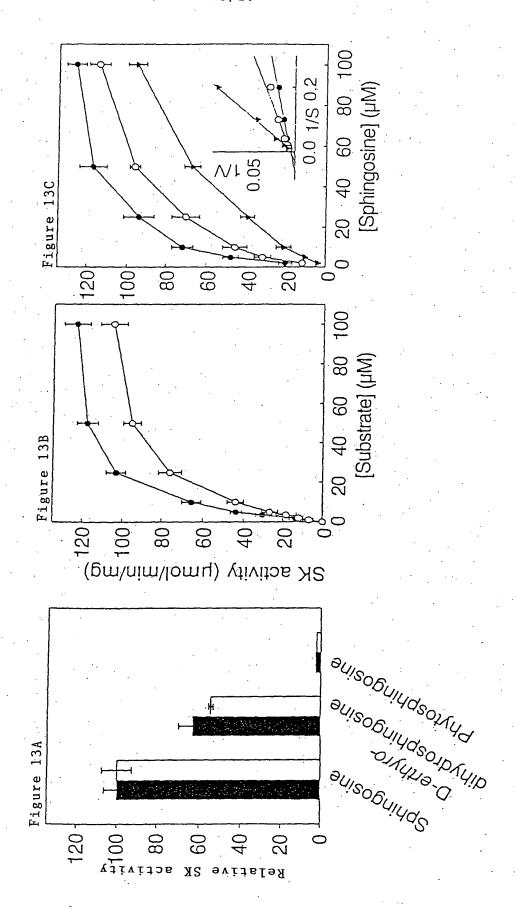
GSEMFAAPMGRCA SSELFAAPMGRCE SSELFAAPMGRCE AKDTKFFPAALPA AADTKFFPAALPS AADGPFAPSAKLE ***	L identity 818 808 . 288 . 308 . 308
PSHWTVVPDEDFVLVLALLHSHLGSEMFAAPMGRCA PSHWTVVPEQDFVLVLVLLHTHLSSELFAAPMGRCE PSHWTVVPEQDFVLVLVLHTHLSSELFAAPMGRCE LNEDNFKLKYPMTEPVPRDWEKMDSELTDNLTIFYTGKMPYIAKDTKFFPAALPA IKEEDFKIKYPLDEGIPSDWERLDPNISNNLGIFYTGKMPYVAADTKFFPAALPSTVSTSPESHLLTFEI.NDLSIFCAGLLPYIAPDAKMFPAASND)SDETLAVGSSDLEETVVIEDNFVNIYAVTLSHIAADGPFAPSAKLE ** * * * * * * * * * * * * * * * * * *	MVSGCVEPPSWKPQQMPPPEEE MVCGSRDAPSGRDSRRGPPPEEE MVCGSRDAPSGRDSRRGPPPEEE LLRNGRYIDTEFESM
AHLVPLEEPVPSHWTVVPDBDFVLVLALLHSHLGSEMFAAPMGRCA THLVPLEEPVPSHWTVVPEQDFVLVLVLLHTHLSSELFAAPMGRCE THLVPLEEPVPSHWTVVPEQDFVLVLVLLHTHLSSELFAAPMGRCE THLVPLEEPVPSHWTVVPEQDFVLVLVLLHTHLSSELFAAPMGRCE THLVPLEEPVPSHWTVVPF THLVPLEEPVPSHWTVVPF THLVPLEEPVPSHWTVVPF THLVPLEEPVPSHWTVSTSPESHLLTFEI.NDLSIFCAGLLPYIAPDAKMFPAASND TKFQNWTLPDSDETLAVGSSDLEETVVIEDNFVNIYAVTLSHIAADGPFAPSAKLE	KG. MFAVDGELMVSEAVOGQVHPNYFW. MVSGCVEPPPSWKPQQMPPPEEPLRG. VFSVDGELMVCEAVOGQVHPNYLW. MVCGSRDAPSGRDSRRGPPPEEP. RG. VFSVDGELMVCEAVOGQVHPNYLW. MVCGSRDAPSGRDSRRGPPPEEP. SG. LFSVDGEKFPLEPLQVEIMPMLCKTLLRNGRYIDTEFESM. NG. LFSVDGEKFPLEPLQVEIMPRLCKTLLRNGRYUDTDFDSM. GKRHYFALDGESYPLEPFCRVAPKLGTTLSPVAGFQLLDI. * F**DGE. E*** * P











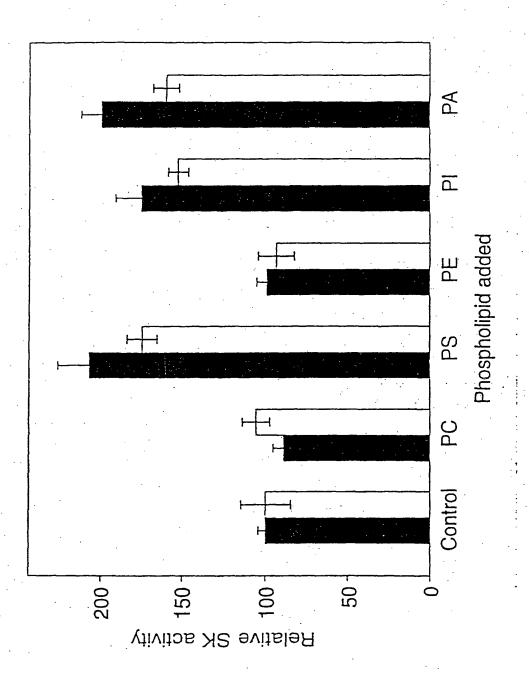


Figure 14